



PTO/SB/08a (04-07)

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<b>Substitute for form 1449A/PTO</b> <b>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/722,174	
			Filing Date	11/25/2003	
			First Named Inventor	King et al.	
			Art Unit	1742	
Examiner Name	Nicholas A. Smith				
Sheet	1	of	8	Attorney Docket Number	2771-688

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AB	US- 5,462,645 - A	10-31-1995	Albery, John W., et al.	
	AC	US- 4,589,958 - A1	05-20-1986	Alexander, Peter W., et al.	
	AD	US- 2,884,366 - A	04-28-1959	Anderson, Bernard E., et al.	
	AE	US- 6,974,531 - B2	12-13-2005	Andricacos, Panayotis, et al.	
	AF	US- 6,288,783 - B1	09-11-2001	Auad, Rogerio Batista	
	AG	US- 5,325,038 - A	06-28-1994	Banzai, Keiichiro, et al.	
	AH	US- 4,496,454 - A	01-29-1985	Berger, Terry A.	
	AI	US- 6,569,307 - B2	05-27-2003	Blachier, Olivier J., et al.	
	AJ	US- 4,812,210 - B1	03-14-1989	Bonivert, William D., et al.	
	AK	US- 2,707,166 - A1	04-26-1955	Brown, Henry, et a.	
	AL	US- 5,162,077 - A1	11-10-1992	Bryan, Avron I., et al.	
	AM	US- 2005/0016847 - A1	01-27-2005	Buehler, Martin	
	AN	US- 6,645,364 - B2	11-11-2003	Calvert, Jeffrey M., et al.	
	AO	US- 4,568,445 - A1	02-04-1986	Cates, Marion H., et al.	
	AP	US- 2004/0065561 - A1	04-08-2004	Chalyt, Gene, et al.	
	AQ	US- 6,572,753 - B2	06-03-2003	Chalyt, Gene, et al.	
	AR	US- 5,192,403 - A	03-09-1993	Chang, I-Chia, et al.	
	AS	US- 3,288,690 - A1	11-29-1966	Creutz, Hans-Gerhard, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AT	EP - 0 302 009 - A1	07-13-1988	Harald, Danigel, Dr.		
	AU	WO - 01/29548 - A1	04-26-2001	Robertson, Peter M.		
	AV	DE - 19911447 - A1	12-07-2000	Schumacher, Rolf, et al.		
	AW	JP - 2001-073183 - A	03-21-2001	Yasushi, Isayama, et al.		

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	AX	US- 6,558,519 - B1	05-06-2003	Dodgson, John Robert, et al.	
	AY	US- 3,996,124 - A	12-07-1976	Eaton, Paul E., et al.	
	AZ	US- 4,038,161 - A1	07-26-1977	Eckles, William Edward, et al.	
	BA	US- 3,972,789 - A1	08-03-1976	Eppensteiner, Frederick W., et al.	
	BB	US- 6,270,651 - B1	08-07-2001	Essalik, Abetif, et al.	
	BC	US- 3,950,234 - A	04-13-1976	Faulkner, John P., et al.	
	BD	US- 4,917,774 - A1	04-17-1990	Fisher, Gordon	
	BE	US- 4,917,777 - A1	04-17-1990	Fisher, Gordon	
	BF	US- 2,898,282 - A1	08-04-1959	Flook, W.M., Jr., et al.	
	BG	US- 3,883,414 - A	05-13-1975	Fujinaga, Taitoro, et al.	
	BH	US- 4,498,039 - A	02-05-1985	Galwey, Ronald K., et al.	
	BI	US- 5,017,860 - A	05-21-1991	Germer, Warren R., et al.	
	BJ	US- 6,365,033 - B1	04-02-2002	Graham, Lyndon W., et al.	
	BK	US- 5,131,999 - A	07-21-1992	Gunasingham, Hari	
	BL	US- 2,830,014 - A1	04-08-1958	Gundel, Wolfgang, et al.	
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	BN	US- 2006/0102475 - A1	05-18-2006	Han, Jianwen, et al.	
	BO	US- 2005/0241948 - A1	11-03-2005	Han, Jianwen, et al.	

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	BP	US- 6,984,299 - B2 <sup>3</sup>	11-10-2006	Han, Jianwen, et al.	
	BQ	US- 6,709,568 - B2	03-23-2004	Han, Jianwen, et al.	
	BR	US- 2,707,167 - A1	04-26-1955	Hoover, Edwin W., et al.	
	BS	US- 4,849,330 - A	07-18-1989	Humphries, Gillian M.K., et al.	
	BT	US- 5,288,387 - A1	02-22-1994	Ito, Takayuki, et al.	
	BU	US- 3,655,534 - A1	04-11-1972	Kampe, Marcis M.	
	BV	US- 3,725,220 - A1	04-03-1973	Kessler, Richard B.	
	BW	US- 2004/0040842 - A1	03-04-2004	King, Mackenzie E., et al.	
	BX	US- 2005/0067304 - A1	03-31-2005	King, Mackenzie E., et al.	
	BY	US- 2006/0266648 - A1	11-30-2006	King, Mackenzie E., et al.	
	BZ	US- 7,094,323 - B2	08-22-2006	King, Mackenzie, et al.	
	CA	US- 5,316,649 - A1	05-31-1994	Kronberg, James W.	
	CB	US- 2005/0224370 - A1	10-13-2005	Liu, Jun, et al.	
	CC	US- 5,268,087 - A1	12-07-1993	Lu, Po-Yen	
	CD	US- 5,320,721 - A	06-14-1994	Ludwig, Frank A., et al.	
	CE	US- 5,074,157 - A1	12-24-1991	Marsoner, Hermann, et al.	
	CF	US- 4,529,495 - A	07-16-1985	Marsoner, Hermann	
	CG	US- 3,910,830 - A	10-07-1975	Mayse, Weldon D.	

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	CH	US- 4,707,378 - B1	11-17-1987	McBride, Donald G., et al.	
	CI	US- 6,366,794 - B1	04-02-2002	Moussy, Francis, et al.	
	CJ	US- 3,798,138 - A1	03-19-1974	Ostrow, Barnet D., et al.	
	CK	US- 4,119,532 - A	10-10-1978	Park, Moon C.	
	CL	US- 6,478,950 - B1	11-12-2002	Peat, Robert, et al.	
	CM	US- 5,612,698 - A	03-18-1997	Reay, Richard J.	
	CN	US- 5,296,123 - A	03-22-1994	Reddy, Vilambi N.R.k., et al.	
	CO	US- 2003/0080000 - A1	05-01-2003	Robertson, Peter M.	
	CP	US- 6,495,011 - B2	12-17-2002	Robertson, Peter M.	
	CQ	US- 6,280,602 - B1	08-28-2001	Robertson, Peter M.	
	CR	US- 6,592,737 - B1	07-15-2003	Robertson, Peter M.	
	CS	US- 6,758,955 - B2	07-06-2004	Robertson, Peter M.	
	CT	US- 6,758,960 - B1	07-06-2004	Robertson, Peter M.	
	CU	US- 3,101,305 - A1	08-20-1963	Roth, Emil, et al.	
	CV	US- 6,210,640 - B1	04-03-2001	Ruth, Kenneth A., et al.	
	CW	US- 7,022,215 - B2	04-04-2006	Schomburg, Cory	
	CX	US- 6,254,760 - B1	07-03-2001	Shen, Ben, et al.	
	CY	US- 5,223,118 - A1	06-29-1993	Sonnenberg, Wade, et al.	

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	CZ	US- 6,827,839 - B2	12-07-2004	Sonnenberg, Wade, et al.	
	DA	US- 4,317,002 - A1	02-23-1982	Spicer, Lyndon R.	
	DB	US- 4,305,039 - A	12-08-1981	Steuernagel, Werner H., et al.	
	DC	US- 3,276,979 - A1	10-04-1966	Strauss, Wennemar, et al.	
	DD	US- 6,808,611 - B2	10-26-2004	Sun, Zhi-wen, et al.	
	DE	US- 6,459,011 - B1	10-01-2002	Tarr, Matthew A., et al.	
	DF	US- 4,132,605 - A1	01-02-1979	Tench, Dennis M., et al.	
	DG	US- 5,447,802 - A	09-05-1995	Tobiyama, Toichi, et al.	
	DH	US- 2005/0247576 - A1	11-10-2005	Tom, Glenn M., et al.	
	DI	US- 5,635,043 - A	06-03-1997	Tur'yan, Yakov, et al.	
	DJ	US- 4,595,462 - A1	06-17-1986	Vangaever, Frank, et al.	
	DK	US- 4,071,429 - A	01-31-1978	Wagenknecht, John H., et al.	
	DL	US- 6,395,152 - B1	05-28-2002	Wang, Hui	
	DM	US- 2002/0070708 - A1	06-13-2002	Wu, Ten-Der	
	DN	US- 4,772,375 - A	09-20-1988	Wulischleger, Richard E., et al.	
	DO	US- 6,022,470 - A	02-08-2000	Yarnitzky, Chaim Noah	
	DP	US- 5,404,018 - A	04-04-1995	Yasuda, Hiroshi, et al.	
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	DQ	ALWASH, S. H. ET AL., A rotating disc electrode with heat transfer facilities for corrosion studies, Corrosion Science, 1987, Page(s) 383-390, Volume 27, Number 4	
	DR	BARD, ALLEN J., ET AL., Electrochemical Methods: Fundamentals and Applications, 2nd Edition, 2001, Page(s) 15-16, Publisher: John Wiley & Sons, Inc., Published in: New York	
	DS	BARZ, H., ET AL., Measurement of the surface temperature of rotating electrodes, J. Electroanal. Chem., 1976, Page(s) 415-418, Volume 69	
	DT	CERNA, N., Determination of chlorides in an acid copper-plating bath, Povrchove Upravy, 1973, Page(s) 11-12, Volume 13, Number 6	
	DU	CHENG, X. L., ET AL., Analysis of organic additives in copper-plating brightener by high performance liquid chromatography, Se. Pu., November 1999, Page(s) 602-603, Volume 17, Number 6	
	DV	DIKUSAR, A. I., ET AL., Thermokinetic instability of electrode processes, J. Electroanal. Chem., 1986, Page(s) 11-23, Volume 207	
	DW	FREEMAN, J.E., ET AL., A fiber-optic absorption cell for remote determination of copper in industrial electroplating baths, Analytica Chimica Acta, 1985, Page(s) 121-128, Volume 177	
	DX	FREITAG, WALTER O., ET AL., Determination of the individual additive components in acid copper plating baths, Plat. Surf. Fin., October 1983, Page(s) 55-60, Volume 70, Number 10	
	DY	HEALY, JOHN P., ET AL., The chemistry of the additives in an acid copper electroplating bath: Part II. The instability 4,5-dithiaoctane-1,...., J. Electroanal. Chem., October 1992, Page(s) 167-177, Volume 338, Number 1-2	
	DZ	HEALY, JOHN P., ET AL., The chemistry of the additives in an acid copper electroplating bath: Part III. The mechanism of brightening by 4,5-...., J. Electroanal. Chem., October 1992, Page(s) 179-187, Volume 338, Number 1-2	

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			Application Number	10/722,174	
			Filing Date	11/25/2003	
			First Named Inventor	King et al.	
			Art Unit	1742	
			Examiner Name	Nicholas A. Smith	
Sheet	7	of	8	Attorney Docket Number	2771-688

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	EA	HUILIANG, HUANG, ET AL., Flow potentiometric and constant-current stripping analysis for mercury(II) with gold, platinum and carbon fibre..., Analytica Chimica Acta, 1987, Page(s) 1-9, Volume 201	
	EB	KIM, JAE JEONG, ET AL., Catalytic behavior of 3-mercaptopropionic acid on Cu electrodeposition and its effect on Cu film properties..., J. Electroanal. Chem., January 30, 2003, Page(s) 61-66, Volume 542, Number 1	
	EC	KRUGLIKOV, S. S., ET AL., The effect of some primary and secondary brighteners on the double layer capacitance in nickel electrodeposition, Electrochimica Acta, September 1967, Page(s) 1263-1271, Volume 12, Number 9	
	ED	LIU, YONGHUI, Testing Technology of Electrochemistry, (English relevance attached), 1987, Page(s) 159, Published in: Beijing	
	EE	Merriam-Webster's Collegiate Dictionary: 10th Ed., 1998, Page(s) 328, 361, 478	
	EF	METROHM, Product description of 731 Relay Box, Downloaded 5/11/05 from <a href="http://www.metrohm.com/products/05/acc/731/731.html">http://www.metrohm.com/products/05/acc/731/731.html</a> , 5/11/05	
	EG	METROHM, Product description of 772 Pump Unit, Downloaded 5/11/05 from <a href="http://www.metrohm.com/products/05/acc/772/772.html">http://www.metrohm.com/products/05/acc/772/772.html</a> , 5/11/2005	
	EH	METROHM, Product description of MVA-3 voltammetry system, Downloaded 5/11/05 from <a href="http://www.metrohm.com/products/06/mva/mva03/mva03.html">http://www.metrohm.com/products/06/mva/mva03/mva03.html</a> , 5/6/2004	
	EI	METROHM, Product description of Titrand Dosino, <a href="http://www.metrohm.com/titrando/products/units/800/800.html">http://www.metrohm.com/titrando/products/units/800/800.html</a> , 2003	
	EJ	METROHM, Product description of Titrand PC Control, Downloaded 5/11/05 from <a href="http://www.metrohm.com/titrando/products/control/pc/pc.html">http://www.metrohm.com/titrando/products/control/pc/pc.html</a> , 2004	

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	EK	MILCHEV, ALEXANDER, ET AL., A galvanostatic study of electrochemical nucleation, J. Electroanal. Chem., July 25, 1992, Page(s) 93-102, Volume 333, Number 1-2	
	EL	OLDHAM, KEITH B., ET AL., Fundamentals of Electrochemical Science, 1994, Page(s) 328-332, Publisher: Academic Press, Inc., Published in: San Diego	
	EM	SEISLER, H.W., ET AL., Near Infrared Spectroscopy, Near Infrared Spectroscopy, 2002, Publisher: Wiley	
	EN	SKOOG, DOUGLAS A., ET AL., Principles of Instrumental Analysis, 3rd Ed., 1985, Page(s) 332-337, Publisher: Harcourt College Publishers	
	EO	TENCH, DENNIS, ET AL., Cyclic pulse voltammetric stripping analysis of acid copper plating baths, J. Electrochem. Soc., April 1985, Page(s) 831-834, Volume 132, Number 4	
	EP	VERECKEN, P.M., ET AL., The chemistry of additives in damascene copper plating, IBM J. Res. Dev., January 2005, Page(s) 3-18, Volume 49, Number 1	
	EQ	WOJCIECHOWSKI, MAREK, ET AL., Square-wave anodic stripping voltammetry of lead and cadmium at cylindrical graphite fiber microelectrodes with..., Analytica Chimica Acta, 1991, Page(s) 433-445, Volume 249, Number 2	
	ER	WIKIPEDIA, Universal Serial Bus -- Wikipedia, Downloaded 5/11/05 from <a href="http://en.wikipedia.org/wiki/USB">http://en.wikipedia.org/wiki/USB</a> , 5/11/2005	
	ES	WYCHE, ET AL., Constant low-voltage drop rotating electrode assembly, Electrochemical Technology, 1966, Page(s) 447, Volume 4, Number 7-8	

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